

Measures on classes of subspaces affiliated with a von neumann algebra

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Abstract

Let \mathcal{M} be a von Neumann algebra acting on a Hilbert space H and let S be a dense lineal in H that is affiliated with a von Neumann algebra \mathcal{M} . The "topological" definition of measures on the classes of orthoclosed and splitting subspaces of S affiliated with a von Neumann algebra \mathcal{M} is given and results on the relationships of these measures to measures on orthoprojections of the algebra \mathcal{M} are presented. © Springer Science+Business Media, LLC 2009.

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Keywords

Inner product space, Measures on classes of subspaces, Orthoclosed and splitting subspaces, Von Neumann algebra